

ABSTRACT

A polyacetal resin composition of high flame retardancy and stability comprises a polyacetal resin, a flame retardant, and a basic nitrogen-containing compound (urea, amidine, aminotriazine, hydrazine, derivatives thereof, amide, urethane). The flame retardant may comprise an aromatic compound reactive to formaldehyde and a phosphorus-containing compound (e.g., red phosphorus, organic phosphonates, organic phosphinates, ammonium polyphosphate, and other phosphoric acid salts, phosphates), and the aromatic compound may be a hydroxyl group and/or amino group-containing compound or an aromatic ring-containing resin (e.g., novolak resins, aralkyl resins, vinylphenol resins, aniline resins, aromatic nylon resins, polycarbonate resins, polyarylate resins, aromatic epoxy resins, aromatic polyether resins). The ratio of the phosphorus-containing compound per 100 parts by weight of the aromatic compound is 1 to 500 parts by weight. The ratio of the flame retardant per 100 parts by weight of the polyacetal resin is 1 to 100 parts by weight, and the ratio of the nitrogen-containing compound is 0.01 to 80 parts by weight. The polyacetal resin may further comprise a drip inhibitor, an oxidation inhibitor, a heat stabilizer, a filler, an inorganic flame retardant, an inhibitor for inhibiting the formation of a phosphoric acid derivative, an impact resistance improver.